

C L A I M S

1. A composite material made of paper or cardboard as a base material with a plastic coating, in particular for light-, gas- and liquid-tight heat-sealable packages, whereby the plastic coating in each case has outer sealing layers and a barrier layer of metal is present between the base material layer and a sealing layer, characterised in that a further barrier layer (2) is provided on the other side of the base material layer (1).
2. The composite material according to claim 1 or 2, characterised in that in each case at least one connecting layer (4) is arranged between the base material layer (1) and the barrier layer (2).
3. The composite material according to 2, characterised in that in each case at least one further connecting layer (4) is arranged between the barrier layer (2) and the outer sealing layer (3).
4. The composite material according to any one of claims 1 to 3, characterised in that the barrier layer (2) consists of Al-foil.

5. The composite material according to any one of claims 1 to 4, characterised in that a bonding agent based on a polymer is used as the connecting layer (4).
6. The composite material according to any one of claims 1 to 4, characterised in that a bonding agent based on an adhesive is used as the connecting layer (4).
7. The composite material according to any one of claims 1 to 6, characterised in that a thermoplastic polymer is used as the sealing layer (3).
8. The composite material according to claim 7, characterised in that the thermoplastic polymer is polypropylene (PP).
9. The composite material according to claim 7, characterised in that the thermoplastic polymer is polyethylene terephthalate (PET).
10. The composite material according to claim 7, characterised in that the thermoplastic polymer is polyethylene (PE).
11. The composite material according to claim 7, characterised in that the thermoplastic polymer consists of liquid crystalline polymers (LPC).

12. The composite material according to claim 7, characterised in that the thermoplastic polymer is ethylene/vinyl alcohol (EVOH).
13. The composite material according to claim 7, characterised in that the thermoplastic polymer is polyamide (PA).
14. The composite material according to one or more of claims 7 to 13, characterised in that the thermoplastic polymer is a compound of the polymers stated in claims 8 to 13.
15. The composite material according to any one of claims 1 to 14, characterised in that the outer sealing layers (3) have a layer thickness of 10 to 40 g/m².
16. The composite material according to claim 15, characterised in that the outer (relative to the subsequent composite package) sealing layer (3) has a layer thickness of 10 to 20 g/m².
17. The composite material according to claim 15 or 16, characterised in that the inner (relative to the subsequent composite package) sealing layer (3) has a layer thickness of 20 to 35 g/m².
18. The composite material according to any one of claims 1 to 17, characterised in that an Al-foil with a layer thickness of 5 to 10 µm is provided as the barrier layer (2).

19. The composite material according to claim 18, characterised in that the Al-foil has a layer thickness of 6 to 8 μm .
20. The composite material according to any one of claims 2 to 19, characterised in that the connecting layer has a layer thickness of 4 to 20 g/m^2 .
21. The composite material according to claim 19, characterised in that the connecting layer (4) has a layer thickness of 5 to 10 g/m^2 .
22. The composite material according to claims 3 and 19, characterised in that the connecting layer (4) present between the base material layer (1) and the barrier layers (2) is thicker than the connecting layer between the barrier layers (2) and the outer sealing layers (3).
23. A method for the production of a composite material according to any one of claims 1 to 22, characterised in that the composite material is produced in a single work cycle in a co-extrusion process.
24. A blank for a composite package, produced according to any one of claims 1 to 22.
25. A composite foil for the production of composite packages, produced according to any one of claims 1 to 22.